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#B9-003, GANGA,Jnanabharathi Enclave,
Valagerahalli, Mysore Road,Bangalore.
Ph: 9448853634, 8762194386
Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/RL/17/2021-2022

Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	216	216	2.2	97.8	95-100
22.4	2487	2703	27.0	73.0	60-80
11.2	2369	5072	50.7	49.3	40-60
4.75	1895	6967	69.7	30.3	25-40
2.36	1245	8212	82.1	17.9	15-30
0.600	585	8797	88.0	12.0	8-22
0.075	958	9755	97.6	2.5	0-5

Note:

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work Compreshensive development of roads and drains in Muthyalanagara, I.C-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 29.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	213	213	2.1	97.9	95-100
22.4	2645	2858	28.6	71.4	60-80
11.2	2236	5094	50.9	49.1	40-60
4.75	1806	6900	69.0	31.0	25-40
2.36	1478	8378	83.8	16.2	15-30
0.600	521	8899	89.0	11.0	8-22
0.075	922	9821	98.2	1.8	0-5

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Job No.: SCE/BBMP/RL/17/2021-2022

Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 29.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	215	215	2.2	97.9	95-100
22.4	2569	2784	27.8	72.2	60-80
11.2	2085	4869	48.7	51.3	40-60
4.75	1934	6803	68.0	32.0	25-40
2.36	1158	7961	79.6	20.4	15-30
0.600	1121	9082	90.8	9.2	8-22
0.075	654	9736	97.4	2.6	0-5

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Job No.: SCE/BBMP/RL/17/2021-2022

Date 29.05.2021

GRADATION FOR WMM

Client : Executive Engineer, RR Nagar Division,BBMP, Bangalore.

Agency : Sri. R Lokesh, Contractor, Bangalore.

Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	214	214	2.1	97.9	95-100
22.4	2312	2526	25.3	74.7	60-80
11.2	2258	4784	47.8	52.2	40-60
4.75	1654	6438	64.4	35.6	25-40
2.36	1239	7677	76.8	23.2	15-30
0.600	856	8533	85.3	14.7	8-22
0.075	1021	9554	95.5	4.5	0-5

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Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing: 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	234	234	2.3	97.7	95-100
22.4	2546	2780	27.8	72.2	60-80
11.2	2139	4919	49.2	50.8	40-60
4.75	1785	6704	67.0	33.0	25-40
2.36	1234	7938	79.4	20.6	15-30
0.600	965	8903	89.0	11.0	8-22
0.075	935	9838	98.4	1.6	0-5

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Date 29.05.2021

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Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 29.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	258	258	2.6	97.4	95-100
22.4	2569	2827	28.3	71.7	60-80
11.2	2125	4952	49.5	50.5	40-60
4.75	1954	6906	69.1	30.9	25-40
2.36	1324	8230	82.3	17.7	15-30
0.600	854	9084	90.8	9.2	8-22
0.075	725	9809	98.1	1.9	0-5

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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/RL/17/2021-2022

Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work: Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing: 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, gms: 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	236	236	2.4	97.6	95-100
22.4	2415	2651	26.5	73.5	60-80
11.2	2369	5020	50.2	49.8	40-60
4.75	1848	6868	68.7	31.3	25-40
2.36	1236	8104	81.0	19.0	15-30
0.600	987	9091	90.9	9.1	8-22
0.075	781	9872	98.7	1.3	0-5

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Date 29.05.2021

GRADATION FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing: 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	248	248	2.5	97.5	95-100
22.4	2632	2880	28.8	71.2	60-80
11.2	2147	5027	50.3	49.7	40-60
4.75	1674	6701	67.0	33.0	25-40
2.36	1235	7936	79.4	20.6	15-30
0.600	987	8923	89.2	10.8	8-22
0.075	952	9875	98.8	1.3	0-5

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Date 29.05.2021

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Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing: 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar (1000)

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	222	222	2.2	97.8	95-100
22.4	2563	2785	27.9	72.2	60-80
11.2	2147	4932	49.3	50.7	40-60
4.75	1825	6757	67.6	32.4	25-40
2.36	1234	7991	79.9	20.1	15-30
0.600	955	8946	89.5	10.5	8-22
0.075	920	9866	98.7	1.3	0-5

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IS Code: :IS 2386 (Part 1):1963(RA 2011)
Date of Testing 29.05.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	210	210	2.1	97.9	95-100
22.4	2563	2773	27.7	72.3	60-80
11.2	2014	4787	47.9	52.1	40-60
4.75	1855	6642	66.4	33.6	25-40
2.36	1239	7881	78.8	21.2	15-30
0.600	965	8846	88.5	11.5	8-22
0.075	945	9791	97.9	2.1	0-5

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Name of Work Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 29.05.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	236	236	2.4	97.6	95-100
22.4	2487	2723	27.2	72.8	60-80
11.2	2212	4935	49.4	50.7	40-60
4.75	1958	6893	68.9	31.1	25-40
2.36	1236	8129	81.3	18.7	15-30
0.600	569	8698	87.0	13.0	8-22
0.075	923	9621	96.2	3.8	0-5

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Job No.: SCE/BBMP/RL/17/2021-2022

Date: 29.05.2021

Aggregate Impact Value

Client	**: Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**: Sri. R Lokesh,** Contractor, Bangalore.
Name of the Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code:	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	29.05.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.30	21.82	21.56

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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→ The results indicated above are based on the tests carried out on the samples received in the
→ Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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IS Code:	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	29.05.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	300	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.56	22.08	21.82

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Date: 29.05.2021

Aggregate Impact Value

Client	**: Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**: Sri. R Lokesh,** Contractor, Bangalore.
Name of the Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
IS Code:	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	29.05.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.82	22.34	22.08

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: SCE/BBMP/RL/17/2021-2022

29.05.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	29.05.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.2	13.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.3	14.1	
	Combined Flakiness & Elongation index	22.50	27.7	

Note:

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